

Date: Tue, 4 Jan 94 14:10:38 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1543
To: Info-Hams

Info-Hams Digest Tue, 4 Jan 94 Volume 93 : Issue 1543

Today's Topics:

Disability Waivers for CW scam
Finally got my license in the mail!
Modified FFTMORSE .EXE (long uuencoded)
Where to Start?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 4 Jan 94 20:29:19 GMT
From: ogicse!uwm.edu!mixcom.com!kevin.jessup@network.ucsd.edu
Subject: Disability Waivers for CW scam
To: info-hams@ucsd.edu

In <CItE54.E31@news.iastate.edu> wjturner@iastate.edu (William J Turner) writes:

>That's all they need? A "severe handicap"?
>Anybody seen anyone with a CW waiver because they are paralyzed from the waist
>down? Maybe I should be the first and use it for my 20wpm...
><HI> <HI>

What if I'm paralyzed from the neck up?! ;-))

--
/`- _ kevin.jessup@mixcom.com |
{ }/ Marquette Electronics, Inc | I suport publick skools! ;-)
\
 / Milwaukee, Wisconsin, USA |
|__*| N9SQB, ARRL, Amateur Radio |

Date: 4 Jan 94 20:34:53 GMT
From: library.ucla.edu!csulb.edu!paris.ics.uci.edu!news.claremont.edu!mtigate!
mti.com!hunley@network.ucsd.edu
Subject: Finally got my license in the mail!
To: info-hams@ucsd.edu

<SUSEEA@MAINE.MAINE.EDU> writes:

> Took the Tech test and 5wpm code on OCT. 20, 1993 and recieved
> the license on Dec. 24, 1993. Nice Christmas present I thought.
> Just thought some of you out there would like to know the waiting
> time.
> Alan
> N1QWT
>
> *** My son, 11 years old also passed his Tech with 5 wpm code. He
> recieved his ticket the same day as me. N1QWV

I just applied for renewal (actually reinstatement) a few days ago.
Does anybody know if a renewal/reinstatement takes approximately the
same time? I had let my license expire, so I can't operate until I
get the new one.

--

John Hunley

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Date: 4 Jan 1994 13:30:23 -0500
From: swrinde!gatech!news.ans.net!inca.gate.net!not-for-mail@network.ucsd.edu
Subject: Modified FFTMORSE .EXE (long uuencoded)
To: info-hams@ucsd.edu

This is FFTM2EXE.ZIP, the executable version of my FFTMORSE changes.
It has been ZIPped with PKZIP 2.04g, and uuencoded with some random
UUENCODE utility. The work directory isn't ready for inclusion.

Some undocumented requirements: SOUND and BLASTER environment
variables, pointing to your Sound Blaster (or fully compatible)
drivers. The audio initialization code uses your SB drivers and
description (found in SOUND and BLASTER) to set up your card.

CT-VOICE.DRV in your SB's directory, and a relatively new function inside (0x19, I think) that automatically parses your environment variables and sets the card up properly.

Undocumented features:

SPACE toggles noise, SHIFT+UP and SHIFT+DOWN move the tune-out region (shown by < to the left of the analyzer). T toggles tune-out (the signal detection uses an average of the entire signal and an average of the tuned-in signal [brown background]-- turning on the tune-out drops the dimmed region from the total signal averaging; useful for tuning out persistent noise).

The second screen line from the bottom consists of 3-line characters and spaces. Spaces indicate the start of a new sample; 3-lines indicate time spent waiting for the next sample to finish recording. This is mainly for debugging, so I know how much more processing I can wedge in between samples.

The bottom screen line consists of blocks and spaces. Blocks indicate that a signal has been detected; spaces show no signal. Another debugging indicator, but still fun to watch. Sound's much neater as a debugging aid-- hit SPACE.

The up-pointing arrow below the graph indicates the average signal in the tune-in (brown background) region. The down-pointing triangle is the overall signal average. The vertical bar is the threshold value-- a tune-in average that meets or exceeds the threshold indicates a signal.

The autoadjust mode (toggled by *) defaults to ON. If the program detects an overrun (no idle time after processing the current block of audio), autoadjust will drop your sampling rate by 1000/sec. This quickly adjusts the program to your hardware's speed. This version of FFTMORSE has defaults that work for my machine (It's a hack, I tell you! A giant hack!)-- you'll need to drop most of the "length" settings if the sampling rate falls far enough. Lengths are in FFT samples, not any absolute time base. One FFT sample is 256 audio samples, and the current method of sampling/processing isn't the best way to go about things.

TIPS AND PRACTICAL INFORMATION

If you want to combine spikes, minimize noise, or just plain fiddle around with the graph, use A and S to change the Skip. Skip's the increment for determining the next sample to use (it's the number of samples skipped between used samples, minus 1). Smooth is the number of FFT snapshots that are averaged together before graphing and signal detection (it's practically useless). SmoMorse is the number

of samples kept for averaging the left Mark and Spc numbers. The right Mark and Spc numbers are used to determine dot/dash timing and letter/word timing. Nois is the minimum signal length to be considered an actual signal (i.e., 2 means that marks of 1 or fewer units [blocks at the bottom of the screen] are considered spurious and ignored).

WARNINGS AND DISCLAIMERS - READ THIS, OKAY?

I can only support this program in my free time, if I have it. This program might not work on your computer, and could even turn your computer into a sizzling puddle of slag. If you have even the slightest doubt that this program won't work (or may be harmful) on your computer, DON'T USE IT. I cannot be responsible for any losses this program may cause you. If it works great, and you spend all your time with it, and you lose your job/wife/house/car/mind because it's such a wonderful and useful and really spiffokeen program... I'M NOT RESPONSIBLE! If your cat mutates because of incidental radiation from the wonderful colorized text, I hope it's not large and carnivorous. You've been warned. Source will be available at some point. I want to slap some legalese on it so folks won't sue me or go off and write really nice programs with it without giving Francois Jalbert and myself free copies. :) I also need to write up some sort of formal README, which this basically is.

I'd also like to extend this program to read FSK formats. If you have technical details about FSK radio emissions, determining their types, or decoding them, please let me know.

Apologies to Francois Jalbert for (a) misspelling his name thrice in this message and (b) dropping all identification from this FFTMORSE program. I've run out of screen space, and will bring back credits if I ever manage to go graphical.

Portions (many) are copyright (c) 1992 by Francois Jalbert (jalbert@IRO.UMontreal.CA).

----- cut below this line -----
begin 666 fftm2exe.zip
M4\$!#!!0`'``(`%"XDQO>H]K<J#D`'&!X`'``)````34]24T4N15A%[;Q]?%-5
MMC^\\SSG).:=IF@8HY75"\$(A@M2+5BA1J!0PO:@D%4XI21`\$!D6J;%)F!4B9>
MH3FEHN//EU[OW(;HW-%QO*A5"_A@:;%%.SBT.,J+HT@5\$P^#%; "ED.;\00N<
M)\$TK,_^=GL_S>?[BI/OLM==>:[_OM==>>Y_>L_@!,HT\1'(((8J2+903[<F&
M8\AEQYIB\B\>!NX^N!JXNQ&X@5S/S8*;#[<"K@3N=W"OPKT/]P7<-W#GX1*8
MZ[G]<' :XM7!E<\$_#00;W#EPS'&&OYPQP-KB)<)?@K-SUW"UP\^!6P97"?2UN
MX#8F;>!>@\$M+WL#=#"C<#[GZX[(\$;N#EPB^"6PGT&)PS:P*V!^P^X'KB)*1NX
M`4,V<+?`W0%7`+<";C.<!/='N%JX`W"'X<['780S#MW`_1KNW6\$;N#=#&P(=K
M@/L+W#&X=K@.N\$MPPL@-7#<XJ\V<*/@9L+EP@7@+L(]8]G`?0#W)5S*J`V<

M!>YFN-0@["Y</?"+"8'[/?>80AKN>;AK1Q/RPXWDZG/U^7_Q['E,GUZ1^@!;
M._'0:"F=)9+E>E)UW+^)/5/*_(166):0B_1D2R&,.9+N)U"P=W:UL#IU[LWW&
M#-MDO;NS_%!YU[\$*DYOL9LF1=D^CV=/>46'90"K;TG[X\#%]5;--RCZ@WZ(0
MMD3\D+"V"H3>TAWY<5;6CR5<L(610N:.5U@JD-%VXOL-23M:55\[-__0Z*5'
MOK]4U29]?[D.B=2K;!GUZ57\`^R'=?SNST>F_35T_G5/]D1]2NFL\NQ-A"O.
M62^49Y<12_&M=<RBO2PY-+KXNMJ')<M\$/2!K[>R]#\$4-R?\$_0V8CDSD(&"@E
M`1I%R6%JR:'A%:E;2(7)0PSU+F-=#JFJW_L8L34)3,8_U+SWU?#(/O`N43)+
MX!Z'*X)[%.X14EV".>S880JT,2JQ,W]?G4K^%%E:V-(BG:F]VV07'1J]VT3V
MW\$B"?R.6.G++H=\$E000U\$M(G4X-+\$50&:G3JX&'\$%A!ZG@U\#'"JTD=&5?Y
M2=7Q/8\SAT:/:D02XSY*00]5&&6ITP%<JH%Z@`]I(`_P80JV;'G7\"[=I&]E
MME:10I"^ROK:-<96?KOB&JK&\+8I#S.RSC;Y868];_,^S\$A'/(V\?"SK")<(M
Z3@(:4LH0\$NP*4M907[+IN3#>[VQ-D=M[<=;%K)G&DFOLCS`!GY0ZCA"V^)O
M&&&Z^GNE,Y[L9SFK6U_ '\$'FD9'F6:VU0;9?LHN3D*[:;1U:\, '.DPC_+9=00
M:0&QI7;&I/J/G#Q*76PX4&BP521GU,LZ1V`X&XW?Q2!>RC50\$IT6V<,L:;&Q
M3JE43.QT7R.;%=.S7#0SY3]GCJ2%(.X@RG5_6+\$\QP'X((S7LK"GC"?NP>'2
M%<N+G&)YF5-*=&B9'2XH7-+'\$R2;4>]P**5\X&5%+0-JX@*"8KS`'(Q@`K]1
M6BBHPD5*2X%I?L;'<BJ\W:B\B?HLD7GJ<^1>9[YT1NJ6[`;):90*35*N. ?%C
MMYC8YEJ=>,*UHJN9(>Z1B6T;#%W'NXYZCA//7XV)'R-TK.N\$YQCQ=.FDX&XK
MR<]0,CI;3[:VM7[>^D563W'B>EW6^6)]VOD1/3FGOK^0JY\$E+EYJDKYHE;L:
M=<0E1%);6KCD\$Y%TG>]J!@'S;\$; ;_([3`0*N\TE9NGHD9-'3G4>*)]0/B(G
M'FDI#YJ?S:@<JI%,/&)'V\R=AWI:04T,IY6(M_(-9;HMC00LS?XEJ[M._9G
M;^!(@#OL_6A<,KD">6L:)?\!Y-T@_W[2B;0C\0Q:!!^H2.S<.]H07E7'[\DE%
M9J]'>^^0#^A>E#CFIZRM/>,SF8#-?J%>4BLS-I\$Y1T\$4LB3`Z`Q\H4E,44T=F
M2H481\^.*R=JMWG.7./,YP^4&:1"T7-Y[/K[RR^SQ?F2760Y30/+ ,1!<1EN3
M_H99:.2C:.3MI5^UFY)):^LZ_TS7^<QM*?9V@]Q!@Q1.K'=?V)[[5=<Q[M-0
M;J97=[VA1*>;(G.L7??ZJ;. [R.L"[5>[86FA]-V2!E-D'"FE(L8-1EB=@3AV
MX6^9(_"@ \$AEG&*]K^Y;_FJ17>FJG>^T8%72<2TX1\$HN5]8['E^&7U*H@V42[
MT2U6%AJ;[88#(Y&>9.<3[:);J#Q>MT<0\V`")@_Y&952`X9SMN`Y(.8Y`NL5
M2]T^?2_ ^CNN`UTJZI,%`U`9B\$86"TF%_H%!G\]RN8/IBY'(8W!3!"#9)<`3<
M2H734&\$74[?;PPZ-!0G>%D*"B?6N09+30*<Y*B\2Y_//_EN]B^UJ;]<_TW6:
MV_]\5SOW>6'C?&\`2X(Z`+SM1^0"KL7[)4:"ISTYJ]7-9C4V1ANE:^LD/1W)
M=7KBD%,LM;>K36/\B#; -*+0-9\$!]SY*6W7J299JH+YDL'6MM;P8/(=+^/2FD
MZP?I:-/65S@E\$M+7<(Y8Q***K6]S=U"^XH,UKW`04N&UKZ<`_<MOL>WDE)XZ
MPCJZ^)W02%VJ%&/1,+1M+'4UJM100]9SP%A3IW\$^&>5\+ \;YGL;)QG/6JIRO
M4<[&7I%"90K0YW00A!%Q=T=\$&\$8DW?'0DA904X`EWH;/S\$^=!/ #42=V.:U-R
MKGv=IK/ES//\$F=]L/TM(L_V,`Z\?)"'GYN]6E\$GUY][L:IVSM#%SFWY6./>,
M.V/!_#Q^U-KE+2+J=1SY&N#0G&:4`,`]6!DM\$; ;L[/9]:Q1A<<%]C7R(@A5E
M(:DL=*4M[V!]7+@U'&N`9%4-_ \C\%^*`'B>Y" I*.VQO(.8TB# ,^KL@]UVP/
M6\FVW)^;[1<5I=G>J2@R:WMCTK?28>EHN6PMO_Q`R2#0?Q[2>RX/*>6"\$D1W
MNO)?A<;@%JZ\AZR_Z,D-,_) ?*?@/@*Q\@(*GRLM^3G-QVYP_R[6>E>&091WB
MK._JY3_0V`NZ[&&6N'<`) [[+R,\&,SFI3)<IZ3UV'50>PY8,3*S?P&.J([T*
M^5WN>`ZI;Q`Y_ZBPMX9_BBXC`9*/GE7I]@[@PN59Z^?^"*8U@][E]UJOYA8
MO[&U]:1T&+W)-?`V`\&)ZF_][5WHG1_VY\7&<P54\$>YN`*94MNF#`HZ8_!
M`N5]43:\;X`SQ-QDCS?9?R;;G)<SVK8Y+VFEE,W0&YKLEQA@-<1+LV95E/*H
ME)FX])G28`3+=-0+J]*[DA+;W`F>LD[B%H(/A9&9+L^1FN]M?M'AM5]R+`B\$
M+Z5"'G4FMFWB@A=(4*%9(:WM97ND0EVF<NN,&16%NB[:0RYSIC1\$#:8*@=_U
M[)KR>JJP..#MR6S2\$Y2&H/"7M^?N2>O>^E<DF-6ZF95:@SZ"Q&+EI,V;*J!@
MD[[-K-!C[0L>Z(U7,W\$G94K3*)E%2%3DQ,P#-*"KK\$]L=NLMPH=-^L!=/5FY

MG:6<E-L9W-K+C"!\$-;>)ZGY\U.W%^Y=D(>I,P;R1[*'7R.,*Z%.)\$C*(`MX
MBW4\<02V):EE0;XB<0V5G!<3V\H&!..20K7S:#6YF3EIK&5?A/\$=#KD20_6<,
MZ)1YMFUZ3]DY@K5"RU#)/1?8'9*Z,.JEPHN00LARFIZX!WE77BX/%;F3*/5F
MS)ESD`\CRD-/N/3EH47N`>B(G+ON\JP[QVZBD81PN>>T06F4^5W60'`HKJQC
MFSN!RB&NQ%T3`\M"700EP'TAR7D.Q;PV[9.TXS:0;NH-+G&JU:6;FN86;&\\$
MIH;FW+7UDW8!]\#>%3G4#')AVS/9&=`IR@;&A4QV))\H2I!;D80)),`^\$-HRU
M?F*L]64ATO9U#G*=_0QG/VNKT&LC3)@UR]8,"1H<%)*)*.ZH@RLM"N\8%/KQ,
M)[V[J[SLC&,3%]A]6?"4_8#QB,58YB3[66V],Y(/Q=?\$"V*M>\$W"C0F/)K@2
M-B3\7=R94)[P9,*VA)Z\$UPWW&!XUG\$V\SDA_?Q7_)D)ZU4SF:XGDU,WM^L'A
MR^(7<PU0\$N=R#9A+J=X)0VZR/+DS*^9`LH*>]@BY>K:%V--_ZB4#V5UE1BD
M_; ,QYSJXBSV>LC!QZ\Z_*F?M.<Y5UE>>R&IT#;ATY0#!XLMXE5Q^]?*IG^11
M<8@_7Y:.]H:DQC]=/05-:)16'75A=,863=>8@@*I(R>RBFIK.M!YPST'#-K*
MRT\$/H0)\4KUW)7\HU97<:><9UP`Z4VE#B6J0I4K0+MY1,Q'N)KA)<!D\U0L"
M?S9Z4R?RWLR;^%KV?1+8QF@JC\$A5W";[91)H2E9;(+`0^2WQ2(#"H>"76)X-
MBMU@\PK;[]=KR0T"D8YZ+0/KTU5A>L14:]HE!*8R<BFRK"59]0"FM4IN6'Y8
M#2(U>8EB#\F+:FY#&\$5-]V3?#J7H6J_M9A[C\$C(2TRP'<RV4XPC<\$X:(V6Z_
MJ&J_@>5AV>)UAKVE(;6\1XG7H0+4)KQ/(`"\$S42QAU%!+5=3-\$-?.L_80Z@T
MQ8<VC;Q2:S".P'\F*KDAJ2D7DI4+#E?B,BHB-!,2Z:7S2:&DX:;!IN'X)9KH
MPOK?29&%E?;1=K0!\$?CBHMHS\E"H,HI=A[8Z4"@J=M\$V17#15=9(51SL>=Q?
MHV)4>:D=^(XY(!OHZZCEC3>:YF_&_0#8P7E(>)*`\ENYR'S/*:J9Q[>!T9
M?L@=3CFOFTK"=<RNP7^D!G;(?FKJ3GNX^^8:P<>,I=?-KNFU0T<,.D\$HLC`
M=ZS4T]ALY::MA`\$;`9L\%#C./=`1V*P8ZA<AI^PGR5`7NRMGU)+&VF3H<8Y`
M"BFH%=\$&CRCEWV[>9KN%WX9^HFH`=IL[,WE0S5>VV2;S4_A,WG5#/#3`D<+L"
M]!0%T32F/#N31R;JAM>FYE"F;P)UCAI1.HAZ.25&Z@DQY6?G;2I?CDNW:YB<
MJ/'6/\$G"]3MOY35*:QWIV/.#XLBSU-W!.P([PAA+QL![U(LE,D6C!8+L@F9)
MZOS3^&8^BR=D%]EY\$[S(@]QH%-V3N)K;J5^!K^D<<]L7N;VW,-#SX0L/7=?
M2_;D\;4YAT8`G_@IWKB1GI7::G;=6G6\RL(23S9+(-#2*RU'S/+DRJ/I63PB
M!_M\$DNX_8K;0[=I.NG_]PBR/29?'F-X,'B32S!_10+]1CQ+D4>)I.L\!76/5
M<4L5SY)F.((=NAC),]VF9N>V^6`@Y6T,:E2YGSM<U1#!"[8*DTAD;&U-5*<.
MS"="9;V-`UG54:V@3"-8-4;(+<Z"F\$;GR60819,QV%5/\$^J+#KDR1-;)0!4
M[&_FJA.-D8(VI00^9L94&5UYY.5+58<S*7UF)5@K4W6DZLA_J#R4N5%E5\$.
(MI2/'F0_4%V8(,6Q\$DU&A(V:W/O!6&.5,5M0&P,ZQQ:%"=%X%'N?0%-#972E[
MS"3M,#75(,J1%UA\$(Q8Y,DYXOX2.+Q\YJ48L<'1NIQ'W35-@?8#Y"6U=@4RJ
M8`LBI"*5A36\$-&;40]1X!4Y]C',R<G0/39=,1_JPFS3V!7E=1_5FDG\$"/*TL
M>!:K3-QT^1!-63H^`4W+I1)J[0(7!HAT7&WE\$]\$ "T,U:&\2XG\$!W(*I\$EPXF
M?A)I'5>A?A#QM)'B.[H:.A1W%MW#`#EE.*4.';2;%<#?*&#!0.EYU_#9D5C)2
M2N5)UA%W1\FR*, "_T]8'AXH5>3!*([L7G\A,"8L642U*,@^ULX+TJ7,8V8G
MWB?,3E.@6\$%=H.BQ]S6.JFK@+0LDU"\$T]T,=D;J@\$IU_%5G>6EF?4U5?>32G
MZFB&`H7EDRW=Q%S*[2;FUF_H[_RK=`->:JZLUQ,S):3>4?F(FJ<I<+F'-A=M
M@00L3!;7G=E[F]5L_136H>M(A.CDA:1=]#QB+W5\$:XU.JQA'*J`+^OAB40Z
M;PKLHDE)GZL=HM%S1Q?0V:.0:!YJ,\N\VL9T!XJ=>:2)T:0'S.G^\$V;80J;0
MIG?='FGS'+7-IT3;"E+)D*R#A;U@02\$:0JCPY,5^21@?UA>4B>PQ28&D9V
MLG\$!P%_1(J')8PVL60YX>UKF;XBGZ?:W^"-GLS)_S;L'T@YWZOS;,20E0D66
M'7&GI=1GB-3\$P3R:U0!UZAQE<RIX8?%_6H!..<-AS27\$G2DT@#OA_S<MUL&QR
M#3`\-0-/0TADU!=&M!C)5`%[ZU9H.[QDUP5^[BBV2B8D;GDZBCK5L3Y),Q4\$
M%BFJX*0;F@,C9HBX-M.,MK>T@5FG>5XB;8,9]<-<0*>2\D;DS?K,=Y+Q3V*
M0ID*I%286"4BY?)0]@.WGJUPAJ\$M]!8A''!W%+?UYA_&`A]XL&/]A\A#00TK
M[]<JG!>5TK!2&@JT0(J[7I6P28\$V\ -V2Q0+LC9!)AB8>7LTF7H8\%PZ-KB4M

MBTP.IQ8IF@)'%6K!,04.PZ<[WZ^8`IAJ*`UJHU&I%4RDZ3!H_9V;^(C5A07F
MBN7[%=9T\$ _0)K`3;[`I4!&)7I@!3/'J**8-?/*+ (#^1+QXXA9_\$KS=ZG8KW
M)U4_F\$<+V1+5&Z4R`OI30E/5VHR!=A8-2]? \&S'XTIISJ`8\$8XI9*37E.P-K
M?Z;VDW!@"PNMI_4D8S?9LTJ-950M4+7"/JE&^9&\!/!+, -ZK, -"6:1/:_2,+R
MD=-0.],+_9K:-\$QTLV_TE(E07J4&F>;_N_.+&F)MA&&HKXV\=#H%[7<=<B]
M%)HY]%">UBH_D(PZN<:H^9I1J>A`-G&'\Z3FM";):084.,-\$JKU`^KRB+-QL
M#S\$DJ]2\R2!]45%*@XHB79(G((TXIL(+M\$)\?N!>`%K"4`)7,!RV1/8P9P]E
M-;L/Q=<+NB\$?M8PZ`CD_+VE1;"_R6IMA@+<&I(.JP@]+3\$;;?5WG04=KB3=U
M,O\>K#>+UNL.;T,?MJ-?J6:GSAFH:39I"-7.LH:XDMXGM6S@\4X:K!@2;I@"
MSF)=N.EM0LDJAE#%3<W+2/M'%WA!!^T5`UFR&[/X:7Q,#ZEOM^M&39,/*#0
M+K2+_4@N@.0A384,3`-)2+[74W8!NTG4,425X\$N.P!(%)1(#7_^,@0[+-6^3
M;078>9;NR5V_4DUD&MTML%%ZOX1*#/*\$P*Z?9<W,#6(#*S7/0\^@\CVJ6K0?
M_1RW^X`XBJKEPS2U?&# \]B,O<.H<S-Y],.%P=.>2+Q4:U'':WNL@]"IX!W.
M.K9^1%;W^B\$97V\>E`5N??)M3MUZ0U:I;G.T[A"26D-"*GG3;^;?LLJ):@,G
M>^PB.SW+J20KB%!L.5-#(B6\$DCZ%400IYH(3F?(R`0/4M4S8;@S;#6&[&+;S
MY64F'LAGH+;`,`A@[E3?0/H6U3?P.9\$(B`P3A+<1EJH'E!A9/\$N\$*B441V6,
M)1;(40JRBK]D09&R!JM)GXQ5FMGQ1>IEV!B?5WPE^E#]]0*52_1:N"]K)(/@
M(XHW&UNGE29H\=YU!F^NT50*>YUBX,GSVLZ:D*?Y)_FG^:@M0%8+NM&5&1Z
M^8KL2CY4A;5I7SF9]*WMC9S*C[9^_CLITTWL=@PW[:QL0!6_GDCAMS93<V#
MNO*?-F/Z<8TYX**%\$J[6`R_]#T_*E68/^?*Y/J7Z_Z^]9S6X))C=+A&8%A
M9+U0/#FTPD*SOABE"G)H\$<T2".S"I70X6`2Y,?QU&`6;&4R<GU7>W#WYCS077
MN))UUTR]WRV43[W&S;XQ)[&S<<>.X)'O"KA/L/RBR)8R?@9W@CLA79#.I,G%
MIZ30*M++^<K4W_+M`RI*2:63]7RDRX2MX>0EUS_H+,0ZQ*JL\$FHKH;9*YC:X
MIWA?&>]_A/A^R_N+B*^<]^4S08DE32U<Z%15-EA0"U65Q<>"N&+WR]:TN+,
MI^V0H8!]'UV\39WW24<%?Q5?D;J#MU0=3VQPZU':<=]EU,-T"ML0<257W%XY
MB_4TZLZ]2<_?ZH0*F:Q,`_X=0#^\$N*KX0V/DXB]NN[0-^ \9"&V09'C7>>GH
MM\0^R+E%(W=ZV:[W3L_P-IZ>[FT^/7U)R[?+QH9.+VNIQ>V(P&L_20V-@?,*
ME8`3(0`3&G):`M\JVL[>FWI3!\$57"YB]:V=@G\$3LPMPs=(5H/*V="SCYK%38
ML1-4P]>;I^4!T0&H(3P/U>1(@4I7FZT>C10;HY&:<7G3Z<B:1D\3LG@DQ-.\$
MY/MB-OBH"?SNZ.E*<79G0[G[ECIF>L;'4B0"Z7F..C82@*" \$JK&XH'A8'9F.
MN(%9SG!QPGH)=0JPV;^092J>CJP7SGV*HLK-60.S[%0T["`TZ-D,47<C#B'(
MIF0(M05TWI\$":F1_G\$9WS6)QK)5L4]8;X.@!Q.3S!04TIGRSCFPTV;RS=*IA
M_NLP3#84WSP+ZBK>/'T+>#7-TBG(!B:0472I<CB0D#GPPND\RK8AH*76/'L;
M*ZDIJC-JIRTTNQQX2K"5QY>8QT(*0:\$6_G6R<3TN(Q7PHXDWH'T\#JB^B=IN)
M[;9\HWN#FC@M1GR\^T\$U\GX@#38I'_)VELE6D6^4Y\JSM;QX&R?D2!VV";<Z
M^A,Y\F*5_L&,DX2L)M>@2%,1UBW://-8<W"10I712'>C^]";&1]GM*&7QD9Z
MD`9B/9BL]: "H*8?T+,KQ[4LQ'0A:"#8;F1/UE854?:CAY!\$'"D,T0X[0M35,
M>ZTI7%`PRV,/I:AV'/=74G-,5:#L!PJ-BMUH\R9[]T\M=HM[&+(/` \U2WKW>
MK=_#<K)8WKW,G;B`3?BPG.S#1H/J+[\&\$SC`5]Z=1BMIA.\$FS3VZO-L%(TSW
M@^XAP+MYC<IS*N3Y1/=A.;./ (R#`&<TG)\$?^%26C8+F<[%NL'T?J\$P]+#:#^1
M<A?G^32GF:_F<)3"O\@MGJ3I%:J^<;041!=&HZ9AZ+3U-KK&AQR!--0&73&+
MJF+7J0-QTZW0G:\$G)=IU06=0IWGT#J7<-DMGJ-^40D%U,*I#-*,--7R8XJ*]
M.;X=P]Z50%;YJ\$0Z?\$2#:@=V_ =L2E,]P6-/PNH#KN08YG>A@@)Y)^73QK33
M3,]'HV>4J\$ZT\$VD7JI-H*+J<=IS#-U\$?/3];G'6X^*L8!:\6EM=&!]T5:"D%
M_JQH>PW(4XUDJ+:+B!Z#TH:@6\+WPK&1\$#P.2Z%(FQF#`%.A5`]]3!8B".DB
M!5!AV,N+--FP*D)8LI1.. '>!DBMF*++)TG&;U:DRH4]ZIR/G7+%F?:F='H\$>
M9IP&7'A8`I471S8J`R:*5;Z7JF?;AL"JBH11%+3ES?-<-]%X)7GC8#IM;=)Z
MHTV9980=S*NK)7)DWT;/\$5FZ*<1FS+T;.T/7ZU20Q]S_E8*\$Z`B*'+A2+;[,

MD*BH2KE;^AKBTV[, :`LTG]*:SW.)63^N6)=87S(JVG(AK3\#GX0E9RCM<%Y&
MVZ*N+ODVJ=1HEP>I*:A6B\"<DQ5.L<+.YTI-*'F*QIX?8=Y.]W*P<QC3FN)V
M-#JG=NI+-AEMTCP(FN0[I]_D9+4)A9<R&M(:I(-4E\$;ZP3U# :UPT0[X1ZG.%
M,Z0RCT,[Y(;4(7*[P<W8I?US,.W/R!CF(5B9^V(A66-Z/G;DIIA-?<<E*NNU
MS>\$#GC#C'A*1K&649D'@;N6E"7;#,*>1HK<\S"X-1Z5I'YGH[-?G.TZBS^EF
MW4`[] [JWC@E\$FEB4=.FI@F@0@)(:DB9\$BK#)K!;AX_!+L&\$/<(:I_JWN\$=X/
MHU"A89@-T0D1;=E)*20F(RVT;:19[#C"32.<.\$B\$)W_?75#0*R9/%\$:F4Z2]
M,=&YP%N*.OS6\""]&\45>\$":24DUI<EV#P/LU]C=\$V(]*W;K&:].9QD)512
MR4DT0FTZNCZ@06* [+MZF"+2B)AC!"Z!' :)OVZ!JHKG?'HNM=V7"5/OD7TR*R
M2-(EL8C6P\RX'Z8^0UQ+U:Z;QY83;4*KRWP@\$48/U]NR3WXS MG:AYN^'Z8[2
M4M<VTA'?1T\+ZJ4#=#T8\,J.K8!J23U3SI6O>PHA^\$5?M8(Y2GMTV,LF=&,D%
M<N5IE0'-5=,V\$B<+2UK4@WY3(\$I*(BM=P?*>'I<Z;+N(C;O."B)(?5XW64^
MD%W%5]K#E8V)7^/DVYVDBKT,=*CN0%G(=F` :C7#]8//J<=#8/N6D^S0IF*W\
MMFGNOUMPAG7^#Z.VMKC;9DG-E0UQJV/E<63W42E.(TVMP=#Y5TN85ZJ.:Q,\
M:L7*IXHAW>5IT_Z5KTKX'KH@<*&, >B1,K[WDXES?Q7,_Y7+=\^CU(I>N?<'K
M<](ZTBZV!I&FGAZ;04)/0-04E>@DU&:. *?"B\$C0=6A+11'6U4R-JJ'H%8]J7
ML8LLNK2/T]JH63YR&R=BJ3#`4M'51.K=8F2M[8C=B4&'C?K9<X"'!`\$%@XUC
M.1F3?;]>:GZMG'\$+ZB'3ER=PJJ>XQWBR"_6LRZ#&=E#&@X(F@P'0UEQ/U\ (9>
M4:%6')J+SG4[3C4=\I==31W\$9=&RH:0-'8J\$\\WN<A/^%Y"/;?UPHD`='ZQH.
MC-%BRX)OPK87+=KKL%GR%+]Q)5*07#//%A1`*+R&C,=L^918D6&Y:\PXA6!D
M9;3EJ98/2C?R+(:F;\$`TZ)+E!TZ<;J*MA]%*^D:IA9MD'II+);7T'MT,"L;
M;P0)!\\E'S%0V29]0.:5<3#R<I_%KE27,8J@K7[>V5[PP21^G4,'\$LHO!W:&N
M_3AJ-NQBN_;KB)0=16!KXM_JN";78-A?.XWVW#5WF\$8I]0ED7*I,(R4H.9#
M4:']^>CQ2')U^NNU.RMQVQ@[_JY&4:U(P8PU+,!.69UV>MI4VJ`\$:N=G(RD)
M[A!M6@Y\$B\70*F?C81LV)92A1-+340F@GE,>?9G(PTN`_62L%;>P<2N%CUY
M0=7[N>`-#!4ZUS!/!L0Q-' +P[B%0U:775_#?Y>,4HIH2HPF6(BI^7&IAD5JF
MEMJ[JEEI%JZ!0%+^C\5[A_0KWDX2*]YWYR/%JR+!0B6X3;5\$46&\$\^NCZNY)
M=`W#-2!509,B<;3%N./H<#5=][61^F!9':E)NF=Y1XQP#548(=/<H[2XSZ@4
M[\$WGKDBTRQ1)!>H^%_PQ7/.9)L?HI-5ZD3<% "L/1;HK8,\$68`B.+#)24=/D:
M38N)G2B`"!\$X@3*I+V9&?7`/H]FK0@C^F>G5!CATBMK<@#&'F<S7_)PM-UY
MVN[[SJG-M(^R_/ /6T<5J]=U1U"JBLQV(PR_1T[U-<\$73&>"14IP/*-I*%SS
M1INZPADQ2&QIV"E5"')*3"6[7<T>/3=5B4M466^",R)^^R6(N6A*=\$@PFXT0
M%/_;TM[Z3TK[W[IH:<M)\$<30U'783HJ\^19:@F\$3=;XX1=M]R'J&/0V0*\<
MTJ]'')H)2NT0+K@VK'7'V_*H*^1_DE7SQWVG9CPX?AK#9&%G\$J4.V-"Z!FJ
MN79H06WN!X[T8">IJDH6%4&0,()RL%H\$0_0*"+ "%0=0"J"'!H%HD1GX>W\$6@
M;N9,8TEQ4A^K`L;3_R'] [E,0VI804/W)<]RJA%HIY88/P*09EKX*X:K9<-=\$
M&*7TKY\Z+X\Z]2._@\$Z1[?:>U,BENG>^0&+W";A?T_-ZUF4W*S\K7Z/2=!T;
M4>^8KQ%M^)QN!=1KF\$_3<MV7=0F%N'58*C-)I>;>S;X[T:.PF_DM865SJ:H'
M_8BCYN<Q)).WE/&UL/HT_S6(13/-G/'9L\$;'WGQC'W<SP358=<*;V7_U3K
M1NB".@ "09-I8<DHS1D`Y.:]9,+2+U#` :0)F!%;E7\$T3!7`\D=I;>CR*H6]CG
MN!<F1>Z-CG8BK1'M4&NAKQNP-X.452):DD[F@C?3`+H)-SBCR?4FOY[W*(Q;
M3VE%U3ZL-4W(`A5%F(2M9>=>Y/?[E:@<JAP5VM:-S]*V-K5U031Q+XR1]4V
MF%>>K6P8U<M.%92N"' =7JZ6RONHH\$CS_RJ@^:@Y5NS+JJ8%\$E]7L,H14\F>Z
M#L]>JD90.5-%U..8K.S8F/OC\$2P7D3%70H?9*(8NF)\$Y/"`ZA^E2_90/ :.]_
M'1ME@V/C4543L*Z)P6\()=`NZ:IWMS%`.RN<%Y`#3A=DMY)[Z4#A!<5^0;V#
MTSW50->C\$.[/]V'/'\AK[[9M\$P!0?ZI8P=8MXT3:8<\)DGABXTR8(2Z5D^*I
M:DQI** ,MK0,WM9VI:MF*B+I)Q0P<J.Y#Z%R;3W=NR/1.RE&I[5' *+M\$-YA-*
MWT3HYJ]TK#,.58M7DK+'D3'1C^A92XAK2FN@-+F-LP,=F'!..]>C0:4I03Y^IM

MLJ-WMI@74:5A<EML]F=T10<Z6;`-E8SNM0E%]SK"&6V08Z<\$Q5_ '[T'WZ<B5
MK\$E1SB?'F4M9<7/_&Y50+T=P@Y^T:' /A.0R\$IJ?6*L2RZF52?<NUA!XZ5S@[
M<9@CX3S'WNE.M:S:2:IUZ6K,&J;;QE\$(=Y\[E=(+:*FUBJ-ZZT2*\$S5<]2XU
MI-0^_" ,*KJ8=S2R__7[70,NJSTF\$>K9&;5EU]!>88!1S_S4J)G(\$"\N(/>P>
MJ<595ITAU==>I\;WEH=6'4(<AP/5.JN*>:G">4F]BG41EQP<U2,&J=B*U.>)
M_SGB>Y[D^*NIR8I^U1<QMEQ<PRB9U?A6Y452_6]C*+E1BZJNM*A5RCA!FZ["
M?A87^*# "XGS0[/Z+(H4LJQ@F6BA38#6S`QA+%, - '6G@J\]\]:>";SOVMA7S5.
MFFD)SE4X.RQ\OK/R<!6^"* (T4H=T<>] (HA1V%"X51F'I1K*E5T@6DK, '-?"4
MG<45&:7TK&75>[%R]E(M+?R8#I"]N#-AY\<QZI!9TH+1DZ"- 'BID]NH)Y'P-
M0JQHDB5_+_]+'.QF+^'VLMTX#>F!_<*-,D#96(OT5Y12W20(3(T]R;VCM&]
M'RA]-'^*, ,<C]J;TDN(4T[+J%*,MC%<<0JIU[>.67PX6_6GE):U3Z`B.CA5U
M`*TA^`V/#(3_,Y;&&*(CY@)&3.DEC)PKCQ?M^/_CEH\UZ>U8,) _V&2YQ.1RC
MA`\?,.U[T+1`BZDT!XKN&1(KQ.GBHRJ6%33.;WXR+)^]CD?+U^^08EV0Y
MS;2V]\:]D, ,K_&G&=YJ9-H9LXN2Y.Y!N'DT8WWU%TJZK(9WM>PB9WGH*\$>B
MY[+!E:20(5+'[FN0W0SYZSJ0,\$_T9QQS7U1,U*D1]FQ/'-]\[0F*7R`\05^
MF?:QG^8Y^'_ ,,]";IW;+E67I(2V#447-&D(MT9<K_@]XQMD'L:_HKX_HJ\$_
MXD!_1%-_Q,`^B\$Z(_[2'_%I?\3A_HBV_HC/^B,^[X\XVA]Q0#_BR_Z(K_HC
M309`G.J/^+8_XG1_1*`_XH?^B#/#]\$6?[(SKZ(\[U1USHC^CLC[C8`W&)EQKV
MG]0SN\$0[%9_&[^/]0`"(HY`H^\$X"5_[#13B*&04?*>`:^#])@IQ%#(+OF^!
M.\#![U*(HU"*X#L-7!/03Z401Z&A@B`W\$`>/YQ"'(5&"KX?@/N\$]ULHQ%'(
M*0B^!/0![]<)0C.`_L+[KQ%9T`W*>\?2R&.0C;!UP'<8=X_GD(<A:X3?>`
M: ^/]UU.(HU"ZX+L`W&>\?R*%.`I-\$GR=P`W.^V^F\$\$>A3,%W\$;BCO'\RA3@*
M31%EX`[SONG4HBC4+;@&RND\1;!GT,ACD+3!=]XX(8+_ID4XBAD%WS7`Y<J
M^`,`IQ%%HMN`[&3B3X)]+(8Y"=PN^R<`9!+^#0AR%\@3?5.!XP;^00AR%G(+/
M!IQ5`\^F\$\$\$>A^P7?<="-%/R%%.(H)(#02P=NJ.!_D\$(<A98+OFL`Z03_(L\$W
M"5"*X%I^#)!9Q;\JRC\$46B-X)L"G%'PKZ401Z%U@B\;.%'P/T8ACD+%@F\5
MH\<%OTOPK4`L<L%?2G%I%>\$X'L,L8L%_Z%\%7S%P]P0^C1271G%E@F\M8@N%
M/8DX#?(_*?C6(>*!2/'IP5>&V"<BP6TT`0X)I/%:-AK:2]-(0QK[3^K\E8)O
M)0*+U\$`5K6D::DH#_.VAETU!9&GA6\#V)P+."_T4*<12J%GQ/'`=#\+],(8Y"
MOQ=\0Q;V)!/Z`8%+V, ,#6)QVN"*U1J! !#?_K")X#?J?@*XWB-\;10R+0H(80
MC:/_@^#+\$?"= `9\C.`RYPiX\$+<(W5]B;1/*Z9`HOI`6FQ'\4?--5XND@GATA
M3COLNSN.V\$F):8Z0"TB/\$N>">&%ORCEQQ'.CQ&\(2\2SP:QLY=X>I18S252
MC#<%,%+BN2#Z25>&\$>&&R7>)8"1\$M\ -XNF]Q,ZX8LR.%N-M`8E0XH4@GMM;
MP=PXXIPH<:V`1"BQ\$1W]Z8\ .XYX>K08[PF^F5JS.WP.K2/4]J\3?/8H/B^"
MIXG0\$2B9AI\9A_]`H&0:WAZ7SC[!-Q%C9V!D2);3(!<+_I9*L31(,3KTGJ."
M+`V"C`>:WSE('Q._-=3*(U"#8+OM`']+_@/4"B-0DV"KPZX!L%D\$)I%/I\$
M`.T!U"3X_T(ACD*?"KX/'-4+_L,42J-0F^#;!]P!P?\9A=(H)+F`CZ-^%/:=
M%'8+4")>*+_B:%VMJVD9B9N%DW@PT+-G2I`Q!J["K!BS2P5T(DULU6`%V0F
MJ(`HULQ5`8-8<Y<*&,6:NU7`) -;<HP)FL297!0:*--4(\$6L<:A`JE@S7P6&
MBC5Y*C!<;.)_8IB:1*@M:"9]!]W3+(3J.M-8/6*\JE^J<5+'; .F@[X^HW4`M
M/'`'_Q42`[SV\$/XN%%['.I6/[VW7;7IAII,80!G7SA86,MJ[.G2<%WQ]`_'(<
M)TZ\$JZ_`?&\$F8@^(JK,WPB^-K3FKCCFOR#YA68[1%F502Q&O,IP><%<54<
M\S;D7'D%YED19IWHTVG,[8+0#3`?CF/^%.&WK\`\.\,BSY>8_Y6\+V"G'X?
MQUR#/(M78)X3819%GZ@Q?R?X:I'3)W',KR/\^168YT:8#:+/H#&?IM*=@W1/
MXV,RNC>=,J">B\$?U)G57)"FCZ#-J27U/R`U*P=WQ7+<'6\$VB3Z3QAR@+9#6
MIP5>1+CF"LSW1)C-HL^L,0=IVW-]VOYMA#^)`G-NA`F@Z!NH,?@^*I`[(UC
MKD3.VZ['/_`"G"+Z4C1F6?#M`G-;"/.;"/_E"LR.""JZ\$05F,\(OI>1TQ_B
MF*L1WGD%YOD1YJ&B;ZC&_`_!=Q#F\$XQC@SA]Z[`G!=A'B[ZAF0,9X5F'A(3

MA@2",^%@(ZZ&[^&]6T]"Z_2'>"WP(PV\$8<ZL@SD3G\\$\$(N)8S0K(0@;.P`K9!
MV"HUS7*\$%<1[:*R0#L;@\$\$_VI2_\$YTB'_77\%<@0]24/@]R3'8*=_%8MTYMQ
MEI'5L'D"#=6\$^'#[]-J!ZHV"?IRD>C:4G**C'%M2B!K;9/7PRCOUP5XE:P#]N
MH6Y5-ZG^CBS'IR6L+X%E>(%MM26P3?QYAFE9<T,TJA>G;<[*L\^KDO=])L(D
M6036([.>RZ7X>/E>10W>SI7<9%<6!A<Q\X,SJ?>/<&YU+LC.(-ZN<&IU)L3
MO(5Z\W"0`2\?%V7AW16T4N_>X##JS0H.I%Y>,)Z,X,ZZBT(]N"37&5NL)-Z
M!;'^PZL.!J@W'Y9*>%6X3@-04?'(]9PXR(#W40`CZCF"^Z@W(_@^]>PPS<-;
M!'R->G?C8`O>]."_4V]V\#GJ30QNI]Y-P:>H-PE7V."]*F_8`2]#>J;>T_(C
M>- \LK\#[-GDIWC?*!7A/EA?@04.^!^];Y5EX9\IWX'V+G(7W]? (M>&^4;\0[
M79Z`]PWR&+RSY%_A?;L\!.\I\@"PZO"L>Z2R1IK%,8]<4?UXY%N[&:H@M'-
M9/&7F?4&\$4BFM%/\$=2CQPC3/)QRY&DXTG?)`62?DSJ3.I)TN&CP8&F82:K
MZ5I3NFET\BVFJ:89IKFF^:9%IJ6FE:9'32[3;TR_-57@'M4+IM^;7@7-&Z9W
M!Z=0`?0_2JD_9I-A^)"1P`?4\>?F[Z#+YM^BHOM^^N*B^E18>X7-`G_A#?Y
M%YC!,6A\$LL_,^H=CJ\$X6M9DL63)%[PLGA??PD8IDX=A>%(<_N88[#>QK2=A
M'7NIZ[+?S/I26?](MH8FY\$W]1B7PIIZ*^.T1_]N(_UW\$/QWQOX_X@8@?C/@_
M1'PYXI^)^/^(^&>U@J1@!N);:Y=-LDR,548?5X'T6*&ALK"^%%KP9+7@J:QO
M(.L?2G'8QE&\0<4/1,,9U4S#Y4<6]]L\$J6D?T10_LCC/T1J7T0%LDRL`]B
ME&0Q]T\$,K>ED7I124UDN%927J%YJ9/NG^T[-!6;GSPPZ,(LWLF5CF_@+#[*
MS]+[+:L>XZH7_\$HU[-'9D169'2F4AE101@RF0`1;\S,S!6A(KES&=QDSA+'X
M\$KP=25U0Y=GSQ)=ME%*G&KG4R\Q@?%?%9QM+.'G3C04)6<"NYS#-R[,59&OT
M314G%\.-'DNV\$;-)@=[7P^"J?.M)*'W9,'E/%6-*'XV0#M+/N"\STM&*%Z:(
M4@-#>5/!^U_"5^69&8;E<RIQNI'8*;U3S:J9>MFBG7T0#;X\$0%-1ZER>DLU
M':4*_I;04N704CV!4H754DTQ3.!S4*KIM%3A/J6::K"LFF+XIZ6::*E`F_J
M]%BIIJ-4.9%23=%*U<44X_B\05M&V?9W-T/&\$"*7[4`':9\^J"T\$X>):TT<0
ME=QG"C1T_W_>4%K^"MXMT<]=U'D([XU%>(R6Q9V6?'!E/>@CV/U8<4_600P
MVY])01S_).KI6>*_6?3I@9Y(01Q_NNB;*ZIH?=\I6,/J9..XB._;?/F(DY#
M7HQ'IFN4./R*P^Z>0.02;88FJ<41<)"#CUXG>+JOVT3A!"+_RM-]FPH;B#S`
MTSU#A4WX0`D>*GLL8G`-48.K@^D;GL](A9>D_6C=H[W(?8.3_?LC=M\D^,*
M[RU4JAI^AQNV=_LRQ=[BQZ\$Y-E*! ?OA)T8IU]L7?',5?Z(-'E8._(__K^JFM
MHO/DAE;]SS6]^,N:2H6=5T)>N'*;0.=9H41./E3+,0V047(>[:49M,0\ADJ"
M/)P6F((&.9F6EX(F68>W,5(F*HS(I5@!%:W':J07S=K2!'T+5V)?4_>H&?7>
MDW23^J?7\$0QKP60\$9II5\$,7!35T\T@U)"*.[AX]+>::`6MLU3M3U:,&)?,,
MI%, '0^\77\$?_!Y&58!+ \P.`8BJW^QJ3.FS4#>^G5':9#-9UC?MFC-.*:07\$T
M=)XAE2X<BTW!_K2D-Z64."K(9<:X6M&*)G=()P,PO^(\$IK6#(XO(F\$MJSZ)
MQ0%K4GOCM\$G06W3+JN.]=\$-ZZ=8,6S.4.LLJ'1>)-[;D9]1#ZC1#VF&NYZ#9
MU'F?34-3C52ZJ8*7H!6G&-165+06GBK&A^):V!3PAY?24;"&F`*?XL,D=@VI
M7I:DKATXR6J81NYRW;]YP+01C.OQ:62VZ^9IDV>[!LE%T\@]KKQIQ.&Z:=HD
MA\LL%WJR]2Q3IE-,>C9X`TM#29MT"H_0*(0XEJ5Q'!L<H(:,-`XA#JMV)T/*
M=&%3)Q/\F:\$AZR9=F\$?H>X9:M9L\$)0AW1CJ^I1U?"<M6S^7%4*?_HJG3YX90
MR?Z!"7"EABWUI#<%/N\)[F(H\N2?2@Q;>`VYOR?X[T@YD65*C6%3(LX%_[0'
M%-#U!/] -Q2HEQC!/L2!\>S84+`*6!:T8-K`'>GJ"2U1,>8D8YBGF\9[@74S-
M68R8KJ,CZG-VGM4")]-<=7\$U!>;U!"<P-1TQB@[%&,CJ"0Y&.CV,FG(/, #>%
M@YR*46C*%#J',/P)FY(N2J.8NH#1]P2_5C'+2Q,\Z?!,@7,A*.U;@\$J^MD14
M>\$KU=2BX6T7]R5:2X.%5LI90\%5P=FMI=8-J=XC*(V#4M+HIT1]"N'VT!2@M
M+4KUNY"\CF*TI%2J\I!\GR>;L&I*!"U0%)+G4H2:\$#Q<1`G)D[<`HZ5#>:X*
MR3:*T=)1B2:'Y\$UYV*+M<@ZYCOM!:8>_H!L#;DG+R\.^'][_M^*N'\>]X2*
M:1MV][!054B\$6SA\@QJ7#G?-L`>'>8=]IH90';8?[_XE_R=>\$\?_K':-^(7
M/_/-=^5P9_50<CUG676]6'TO>SW]GP28U1.YV%DS5_V!BF:!GM:+)M6'8NBY

M7-S)]&TQ='X,7?U4\$AU9N9>:^2\%W""Z1;)*<1DL'"@3W#K2;X?HC[I@')&
M3_:7PIB-!YKYKV@:8WQ?"?U6]2;AG0C+3/L["L@V5\)0S9^'D%B_W\\"MK)
MAU'P)-\8!6U";12L3ZJ/@KSI&.WE1[043==1@6ZZCN,M#Y4LQWNW^AT* XK8@
MAF[-CPK)&[]90U:-UU6/&Z3=)4B]302/%_0A;*)_K.@;+R;RUXFN!-]8`#:1
M7C58SOWR3H#0.C''?QVN88T7"? '9\$+'A,%:D;?M2=V%L/6RVAREJ;#CX,N.[
M1I12K?@\$^#K1/38K=;SHMH!32ATK^J\1*Q"#1"6@_1:\$1N)K[V@X\$ANAU6)1
M^`"G9%XC*IE6D2Y;U904WC;03W(LJ[\$R@P=0)F?(IJ)AQ\IFG'5+],"^I&X
M<]'Q#:(9Q)D"V>>V9\$\1`]S&;[;8PP'<U0EG0>@5+U2+G]&)SUYFEG]P\TBF
M--W[I&8,B77T'8Y+X<J;1UX!+\B&2(_<F7?)0J49G1%.WOA^]9^'\$*K/#K:L
M^A%]^4FWNIC]R-#K152N7(]+HK=B)E^4QT=)4S32_^PE9>75JSI(M5[;?*A,
M[E;Y1FT]-T7\$.:^)<T_V&8A&+!1GD\$:HBUZ&B?!A^Q*!:G[4)"\77!26]=5V
MK)V1S-WGL'XRT=54V_60Z-2JO@<^0:RFF7SB_DW,]*+BM<06+;?.2\$NSWF"
M4?38AN+5#Z]R66^Z[;;;K-'(.>M<:]/)S-6EJY>0L*XH+BXJ3C+<\>"ZHN)'
MEZVU/E9<]'#QLD>MKA7% CZY>M\RUNFA=DH'\KY_/1UX106#>0;DSB6'AJA56
M%;2N6%>ZNKAHW:,KUKFLI<N*5R][<.T*ZT-%[K7+K>N*7-8'5UA7%KG7+4\G
M]Y/EQ:7WSUAX@W/>G!EWIL_,<Y+B!XEA1HRTZ+\$5ZZSC2M(-0,9164M7%)>@
M\ -9QR]/Q1PP+: 'K6Z6N7E: !JU>6%2^WNC8\MF(*)2#3[[YCP<([\^+37;D:
MY"X4.!)WQ2*G:W7Z5R36Y44K2M04'UWF>FB5=4.1N]BZ"MF07U9,^>^D'8!"
M6%>06^U:06SMZE^070>P1M6GR*@@*DX8_\$[^B43^8SG]I[3X\$8+;,2PQBRJ2
MB4;%/^/GYT^PVMH7/(X*WW"+VSKN(:OU!CS6>6BH80>Z\$A6_G(R_8\\$\$ZX)'
M5C]&PQG+K9%G_)UY0#]:5.1:9;5&H\CX.?,F6.]950P(Q=SL0I&^0#03KM+>
M4U1<LD*C)>/ONANXQQZR]J4<]] "XAR98YZU<6;+"I::K);MXT01K;M'J\$HV8
M7&=U%3W\%\%HTXTI4P+K,[2I:MGR-N\25;AV_<()UH70=BB*W"U4BJ!4=X?!6
M% CWD+DFW6N]<,,.ZXHG5+@HOF#W'OC`-D39*:UBPPK7`M<Q%1P`QY*UX:\$&Q
M6CPM<\$_1\A5:8,%CC\Q;-V^E&L@0*GJL9+05A;,6%Q4]BER*K0^Z5Z[\$6!M-
MM)XL70%04?%R]"\$\$(?F4[76\$)+!]^Z0&4MW`]NVL6N!8MB_A0>!FX+9@_/,E
M@M-971]<1U^2J\^`%((\P"+GZZ&K?D?2',4!>]!+*03XQA*3!FL'Z2DZ@>P
M2ORCuro]GF1E#(L7GD&*PK+Z9%8#M6>,)AJDD(7W.\$CZV+&XLD;,X]>YUZZ=
M@-*E,"F#4_"P)(73I23HHT)*[Y,\)%F\$)Z2DQE!)0;%F`\RGHB\$EA4\9F&A*
M21F08NR-_Z6(8,B,>?<X[IA/'BM>#?%5\M"R=2LQ'5:N+<(B`(GT6!%%KZ2K
MA\$N39VM7KWMDQ?)_L3HDJ>^WS>^K/*V\;2&.*^F[Q'T??G*R\75Y^IS];GZ
M7'VN/E>?J_5Y^IS];GZ7'VN/E>?J_5Y^IS];GZ7'VN/0^_/?\74\$L!'A0`
M%`''''@`4+B3&]ZCVMRH.0``8'@``D````````````````````@``````````\$U/4E-%
:+D5815!+!08``````0`!`#<```#/.0``````

end

----- cut above this line -----

Bugs, tips, information, whatever. Let me know in e-mail.
The accompanying documentation was written on the fly (such
a tiny keyboard those flies have), and I don't care if it's
got bad grammar or spelling. Eventually something better
will emerge.

--

-><- Rocco Caputo (troc@inca.gate.net) PGP 2.3a public key available by finger.

Date: 4 Jan 94 20:08:41 GMT

From: att-out!cbfsb!cbnews!cbnewst!cbnews!gdo%aloft.att.com@RUTGERS.EDU

Subject: Where to Start?

To: info-hams@ucsd.edu

In article <tony.blake.17.2D287BDF@stpaul.ncr.com>, tony.blake@stpaul.ncr.com
(Tony C Blake) writes:

|> I realize that amateur radio has a wide range of interests and
|> opportunities. Right now I'm interrested in HF, 2m FM repeater, and
|> satellite. Although I have a good sized budget, it looks as though
|> I can't get into HF and satellite right away. Any opions as to which
|> would be better to start out in would be greatly appreciated.

Hi Tony,

You'd be amazed at what you can do with a small antenna (such as a loop)
and a QRP rig on HF. I just got an MFJ-9040 QRP rig from Santa that puts
out a mere 4 to 5 watts and I've made a bunch of contacts. It's inexpensive
and very small. You also have less chance of interfering with your neighbors'
TV sets and such. I live in the sticks and have room for big antennas so I
can't offer any first-hand advice on small antennas, but I have some friends
using small loop-type antennas with good results.

I've never worked the satelllites so I can't help you there.

73 & Happy New Year!

--

Glenn D. O'Donnell, N3BDA
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End of Info-Hams Digest V93 #1543

